

Contents

VII Preface

Kompis, M.; Caversaccio, M.-D. (Bern)

Introduction and Basics

1 Historical Background of Bone Conduction Hearing Devices and Bone Conduction Hearing Aids

Mudry, A. (Palo Alto, Calif./Lausanne); Tjellström, A. (Göteborg)

10 Acoustic and Physiologic Aspects of Bone Conduction Hearing

Stenfelt, S. (Linköping)

Overview over Different Systems

22 An Overview of Different Systems: The Bone-Anchored Hearing Aid

Dun, C.A.J.; Faber, H.T.; de Wolf, M.J.F.; Cremers, C.W.R.J.; Hol, M.K.S. (Nijmegen)

32 The Ponto Bone-Anchored Hearing System

Westerkull, P. (Askim)

41 Partially Implantable Bone Conduction Hearing Aids without a Percutaneous Abutment (Otomag): Technique and Preliminary Clinical Results

Siegert, R. (Recklinghausen)

Surgical Aspects

47 Surgery for the Bone-Anchored Hearing Aid

Arnold, A.; Caversaccio, M.-D. (Bern); Mudry, A. (Lausanne)

56 Paediatric Baha

McDermott, A.-L. (Birmingham); Sheehan, P. (Manchester)

63 Complications of Bone-Anchored Hearing Devices

Wazen, J.J.; Wycherly, B.; Daugherty, J. (Sarasota, Fla.)

Audiological Aspects

73 Audiological Results with Baha® in Conductive and Mixed Hearing Loss

Pfiffner, F.; Caversaccio, M.-D.; Kompis, M. (Bern)

84 Conductive Hearing Loss and Bone Conduction Devices: Restored Binaural Hearing?

Agterberg, M.J.H.; Hol, M.K.S.; Cremers, C.W.R.J.; Mylanus, E.A.M.; van Opstal, A.J.; Snik, A.F.M. (Nijmegen)

92 Bone-Anchored Devices in Single-Sided Deafness

Stewart, C.M.; Clark, J.H.; Niparko, J.K. (Baltimore, Md.)

103 Factors Influencing the Decision for Baha in Unilateral Deafness: The Bern Benefit in Single-Sided Deafness Questionnaire

Kompis, M.; Pfiffner, F.; Krebs, M.; Caversaccio, M.-D. (Bern)

112 Challenges and Recent Developments in Sound Processing for Baha®

Flynn, M.C. (Göteborg)

Implantable and Nonimplantable Devices

124 Headbands, Testbands and Softbands in Preoperative Testing and Application of Bone-Anchored Devices in Adults and Children

Zarowski, A.J.; Verstraeten, N.; Somers, T.; Riff, D.; Offeciers, E.F. (Antwerp)

132 Bone-Anchored Hearing Aids versus Conventional Hearing Aids

Banga, R.; Lawrence, R.; Reid, A.; McDermott, A.-L. (Birmingham)

Outlook

140 The Future of Bone Conduction Hearing Devices

Håkansson, B. (Göteborg)

153 Author Index

154 Subject Index